

**40365 Braithwaite, LA**  
**Stolthaven Terminal Facility**  
**Summary of Community Air Monitoring and Sampling Results**  
**October 6, 2012**  
**PO# 12-H0408-MR**

This data report discusses community real-time air monitoring data collected between October 5<sup>th</sup> 00:00 and October 5<sup>th</sup> 23:59 in support of mitigation and remediation operations conducted near Stolthaven’s facility near Braithwaite, LA.

Community real-time air monitoring was conducted for VOCs, LEL, and formic acid using stationary AreaRAEs and/or hand-held instruments such as the MultiRAE and colorimetric detector tubes. Table 1 and Table 2 below display data summaries for AreaRAEs and hand-held instrument data, respectively. While stationary AreaRAE results indicate detections of VOCs at two AreaRAE units, these results are preliminary and may include drift in the instrument’s sensor. Additionally, these AreaRAE instruments are located adjacent to roads and are subject to detecting products of combustion due to vehicular emissions. No VOCs, formic acid or LEL detections were observed within the community using real-time handheld or colorimetric tubes. Table 3 highlights analytical sample counts collected within air and residential soil. Appendix 1 shows incident site maps.

**Table 1**  
**AreaRAE Summary – October 5<sup>th</sup> 00:00 – 23:59**

Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 1	VOC	4720	18	0.1 - 0.2 ppm
Unit 2	VOC	5684	0	0 - 0 ppm
Unit 3	VOC	4834	0	0 - 0 ppm
Unit 4	VOC	4575	118	0.1 - 0.7 ppm
Unit 10	VOC	3223	0	0 - 0 ppm
Unit 11	VOC	4285	0	0 - 0 ppm
Unit 12	VOC	5682	0	0 - 0 ppm
Unit 13	VOC	4640	0	0 - 0 ppm

**\*Detections may include drift events** - Drift is defined as any interference in the sensor’s ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift.

**Table 2**  
**Hand-held Real-time Summary – October 5<sup>th</sup> 00:00 – 23:59**

<b>Community</b>				
<b>Analyte</b>	<b>Number of Readings</b>	<b>Number of Detections</b>	<b>Average Concentration of Detections</b>	<b>Highest Concentration</b>
Formic Acid	5	0	NA	<0.52 ppm
LEL	343	0	NA	< 1.0 %
VOC	343	0	NA	< 0.1 ppm

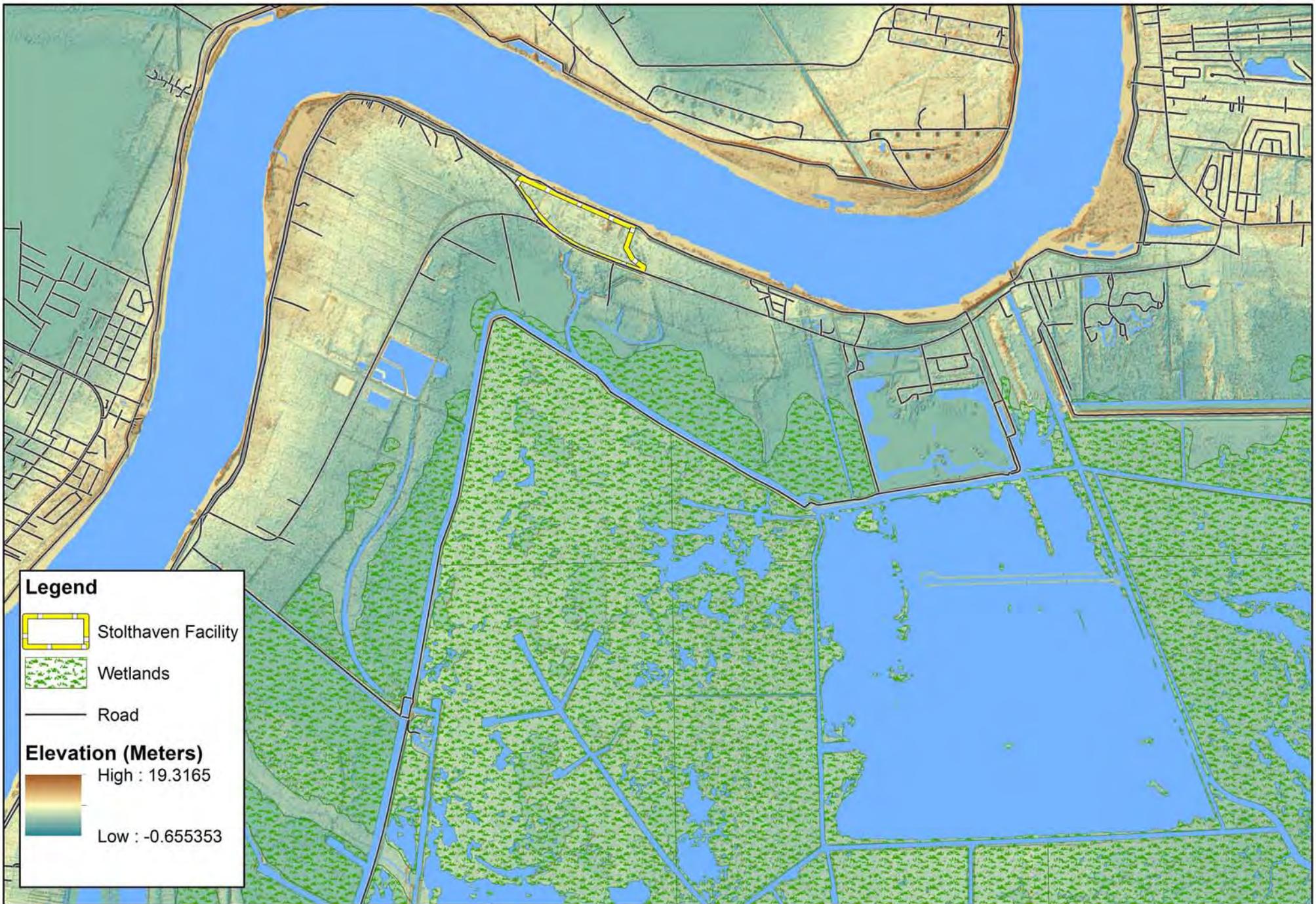
NA = not applicable

\* In addition to the tabulated real-time data, additional air monitoring for the purpose of worker protection was performed throughout the work area. These data are used for task-specific decision-making, but may not be recorded in the tabulated data represented above.

**Table 3**  
**Analytical Sample Counts – October 5<sup>th</sup> 00:00 – 23:59**

<b>Matrix</b>	<b>Number of Samples</b>
Air	44
Residential Soil	2

# Appendix 1: Incident Maps



**Legend**

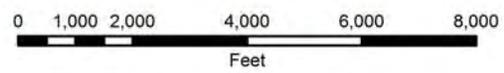
-  Stolthaven Facility
-  Wetlands
-  Road

**Elevation (Meters)**

 High : 19.3165

Low : -0.655353

**Stolthaven Facility  
Shaded Relief of Elevation**



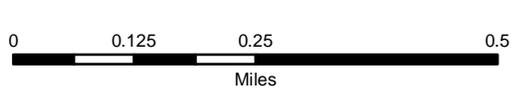
<b>CTEH</b> <small>Project No. 40365</small>	<b>Stolthaven</b>
	<b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b>
<b>Print Date: 10/6/2012</b>	



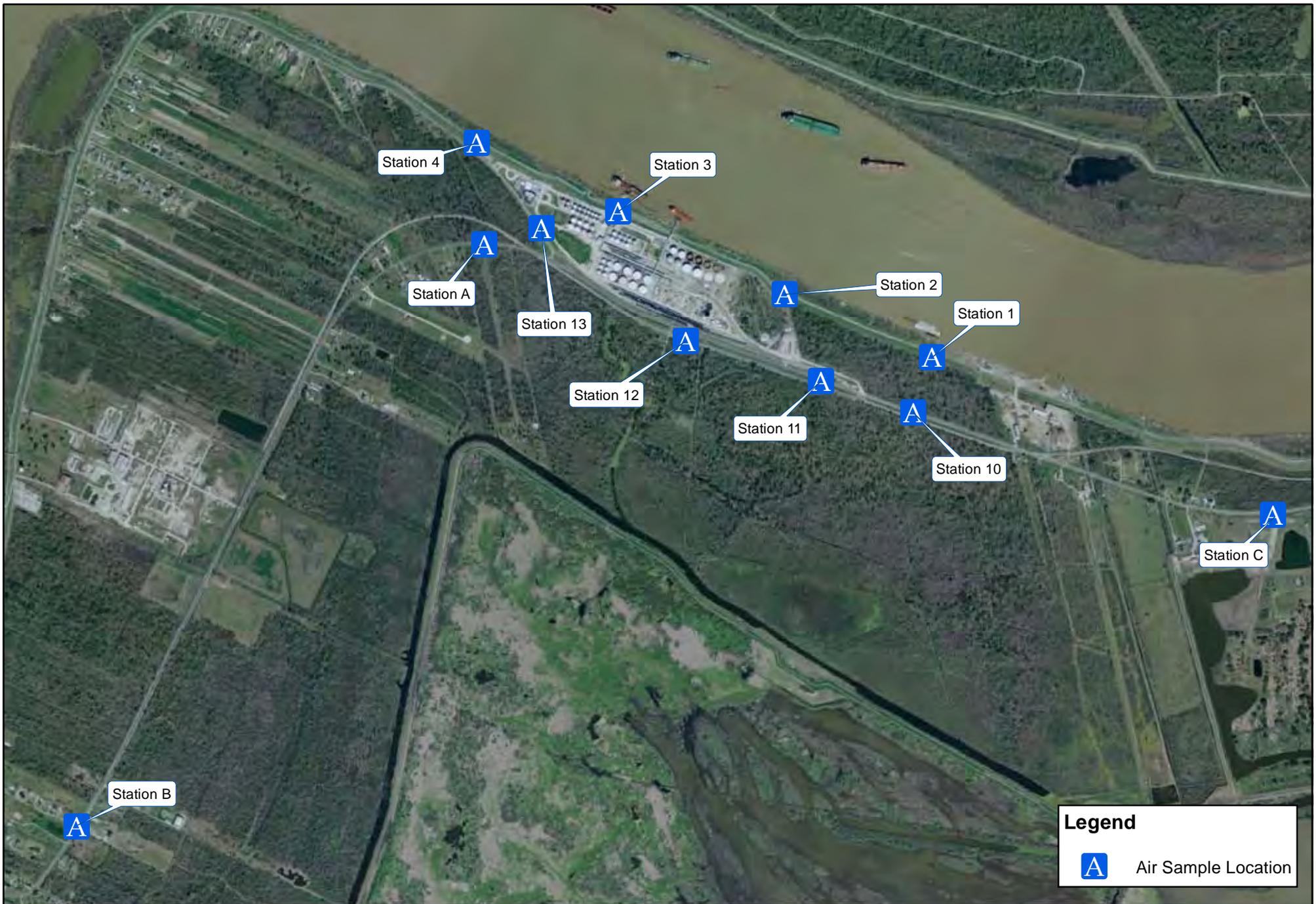
**Legend**

 AreaRAE Station

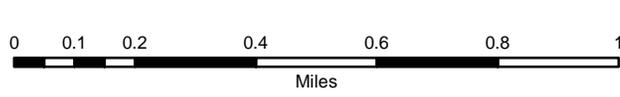
**Community  
AreaRAE Station Locations**  
September 21, 2012



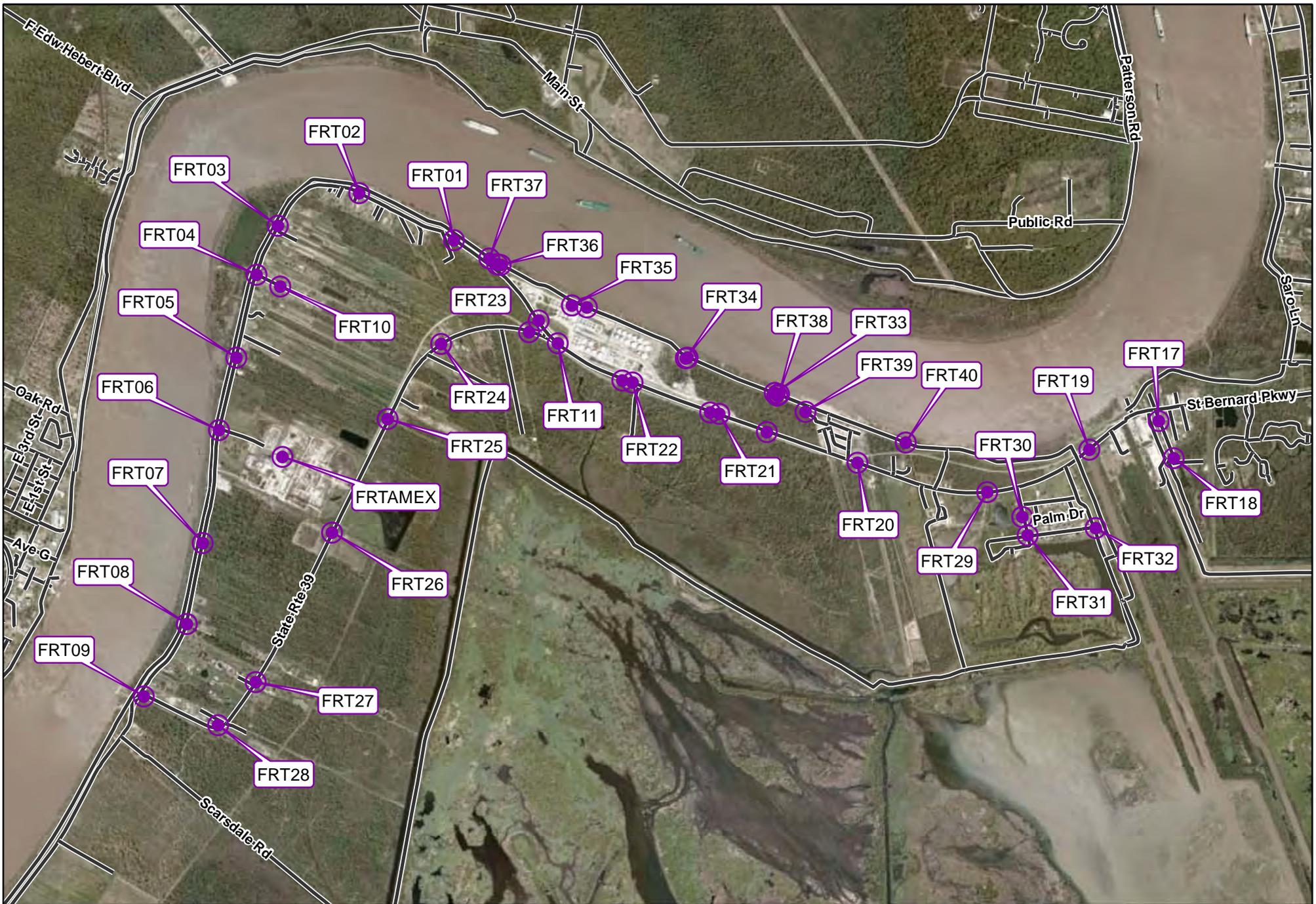
 Project No. <b>40365</b>	<b>Stolthaven</b> <b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b> <b>Print Date: 9/26/2012</b>



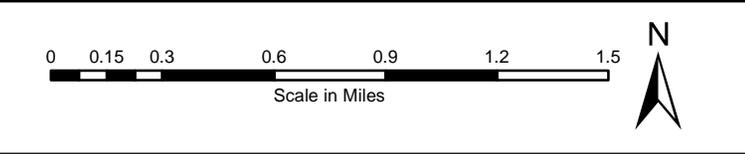
**Ambient Air  
Analytical Sampling Locations**



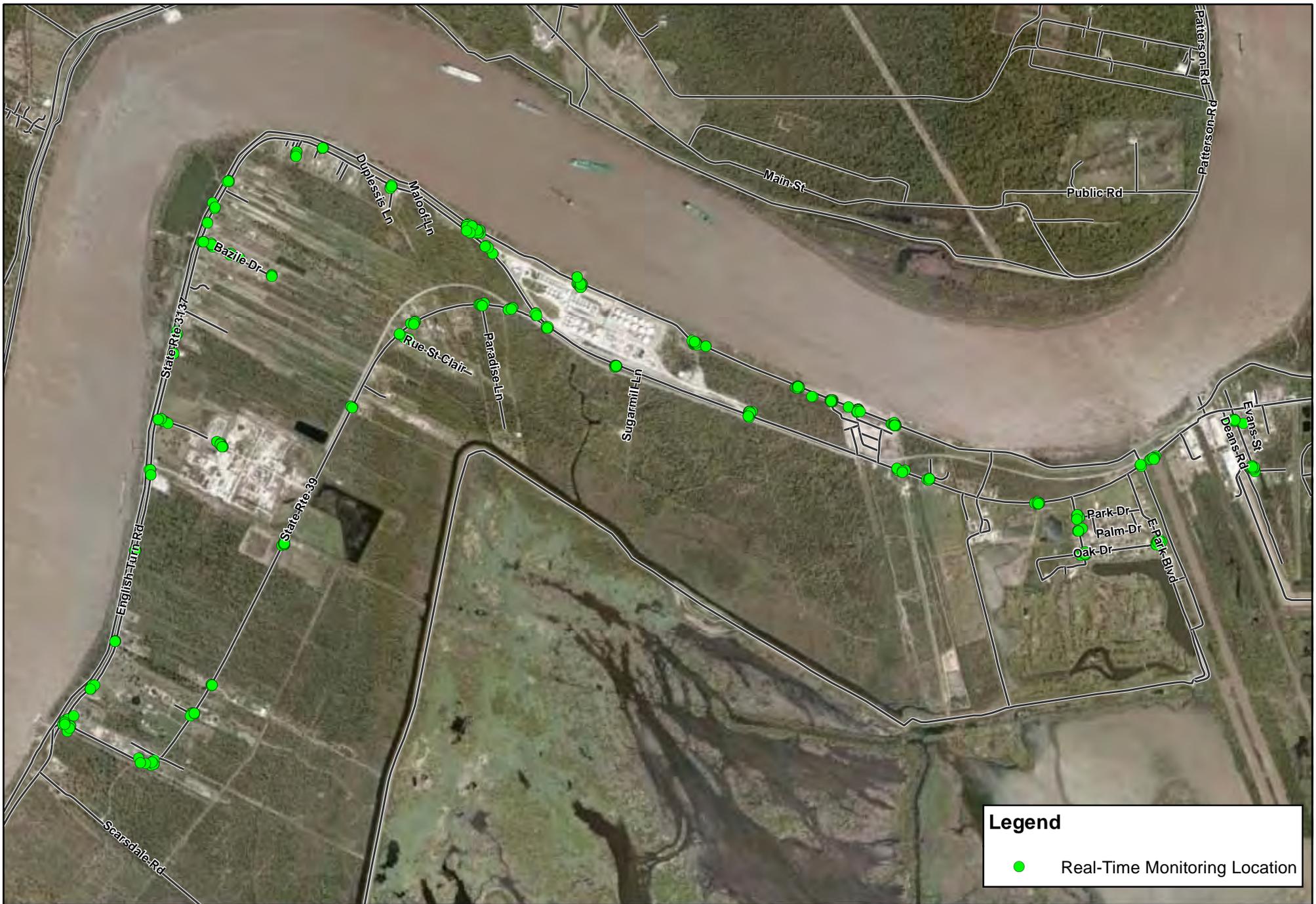
 Project No. <b>40365</b>	<b>Stolt Haven</b> <b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b> Print Date: 9/28/2012



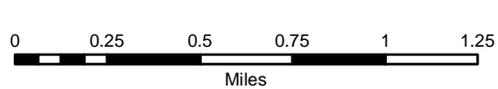
# Community Fixed Real-Time Monitoring Locations



	<b>Stolthaven</b> <b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b> <b>Print Date: 9/26/2012</b>
Project No. <b>40365</b>	



**Community Real-Time Monitoring Locations**  
10/05/2012



**Legend**

- Real-Time Monitoring Location

 Project No. <b>40365</b>	<b>Stolthaven</b> <b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b> <b>Print Date: 10/6/2012</b>

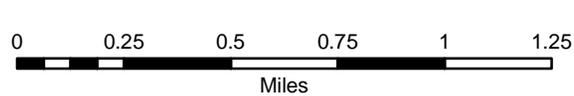


**Legend**

**VOC Concentration**

- <0.1 ppm
- 0.1 - 2 ppm
- 3 - 10 ppm
- 11 - 40 ppm
- >40 ppm

**Manually-Logged  
Community VOC Concentrations**  
10/05/2012



**CTEH<sup>®</sup>**  
Project No.  
**40365**

**Stolthaven  
Braithwaite, LA**  
**Plaquemines Parish**  
**Print Date: 10/6/2012**